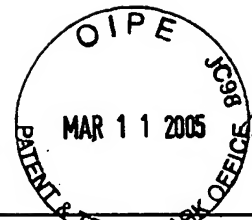


## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail**

**Mail Stop ISSUE FEE**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, Virginia 22313-1450**  
**or Fax (703) 746-4000**



INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

26389 7590 12/13/2004

~~CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS,~~~~PLLC~~~~1420 FIFTH AVENUE~~~~SUITE 2800~~~~SEATTLE, WA 98101-3244~~

HOWREY SIMON ARNOLD & WHITE, LLP  
 1299 Pennsylvania Avenue, N.W.

Washington, DC 20004

## Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/055,754      | 01/23/2002  | Frederick K. Blades  | GDAES118567         | 7333             |

TITLE OF INVENTION: SERIES ARC FAULT DIAGNOSTIC FOR AIRCRAFT WIRING

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO           | \$1400    | \$300           | \$1700           | 03/14/2005 |

| EXAMINER         | ART UNIT | CLASS-SUBCLASS |
|------------------|----------|----------------|
| TERESINSKI, JOHN | 2858     | 324-536000     |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Howrey Simon Arnold  
& White, LLP

2. \_\_\_\_\_

3. \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

General Dynamics OTS (Aerospace) Inc.

Redmond, WA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

☒ Issue Fee☒ Publication Fee (No small entity discount permitted)☒ Advance Order - # of Copies 10

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 08-3038 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

03/14/2005 JADD02 00000099 003038 10055754

Authorized Signature

Date March 11, 2005Typed or printed name Michael J. Bell / Andrew R. Sommer

01 FC:1501 1400.00 DA  
 Registration No. 39,604 / 53,932

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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# FEE TRANSMITTAL for FY 2004

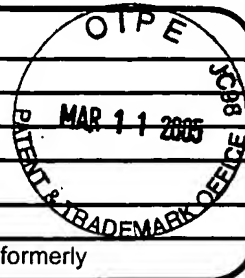
Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$1730

## Complete If Known

Application Number 10/055,754  
Filing Date January 23, 2002  
First Named Inventor Frederick K. Blades  
Examiner Name Teresinski, John  
Art Unit 2858  
Attorney Docket No. 03105.0002.NPUS01 (formerly GDAES118507)



### METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money ☐ other ☐ None

☒ Deposit Account:

Deposit Account Number 08-3038  
Deposit Account Name Howrey Simon Arnold & White  
Customer No. 22930

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Credit any overpayments  
☒ Charge any additional fee(s) or any underpayment of fee(s)  
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

### FEE CALCULATION

#### 1. BASIC FILING FEE

| Large Entity |          | Small Entity |          | Fee Description        | Fee Paid |
|--------------|----------|--------------|----------|------------------------|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |                        |          |
| 1001         | 770      | 2001         | 385      | Utility filing fee     |          |
| 1002         | 340      | 2002         | 170      | Design filing fee      |          |
| 1003         | 530      | 2003         | 265      | Plant filing fee       |          |
| 1004         | 770      | 2004         | 385      | Reissue filing fee     |          |
| 1005         | 160      | 2005         | 80       | Provisional filing fee |          |
| SUBTOTAL (1) |          |              |          | (\$)                   | 0        |

#### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims  -20\*\* =  X  =  0  
Independent Claims  -3\*\* =  X  =  0  
Multiple Dependent  =  =  0

| Large Entity |          | Small Entity |          | Fee Description                                        | Fee Paid |
|--------------|----------|--------------|----------|--------------------------------------------------------|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |                                                        |          |
| 1202         | 18       | 2202         | 9        | Claims in excess of 20                                 |          |
| 1201         | 86       | 2201         | 43       | Independent claims in excess of 3                      |          |
| 1203         | 290      | 2203         | 145      | Multiple dependent claim, if not paid                  |          |
| 1204         | 86       | 2204         | 43       | ** Reissue independent claims over original patent     |          |
| 1205         | 18       | 2205         | 9        | ** Reissue claims in excess of 20 over original patent |          |
| SUBTOTAL (2) |          |              |          | (\$)                                                   | 0        |

\*\*or number previously paid, if greater; For Reissues, see above

### FEE CALCULATION (continued)

#### 3. ADDITIONAL FEES

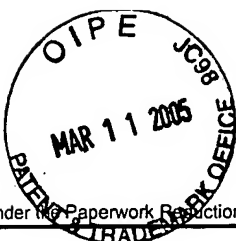
| Large Entity                       |          | Small Entity |          | Fee Description                                                            | Fee Paid |
|------------------------------------|----------|--------------|----------|----------------------------------------------------------------------------|----------|
| Fee Code                           | Fee (\$) | Fee Code     | Fee (\$) |                                                                            |          |
| 1051                               | 130      | 2051         | 65       | Surcharge - late filing fee or oath                                        |          |
| 1052                               | 50       | 2052         | 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 1053                               | 130      | 1053         | 130      | Non-English specification                                                  |          |
| 1812                               | 2,520    | 1812         | 2,520    | For filing a request for ex parte reexamination                            |          |
| 1804                               | 920*     | 1804         | 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 1805                               | 1,840*   | 1805         | 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 1251                               | 110      | 2251         | 55       | Extension for reply within first month                                     |          |
| 1252                               | 420      | 2252         | 210      | Extension for reply within second month                                    |          |
| 1253                               | 950      | 2253         | 475      | Extension for reply within third month                                     |          |
| 1254                               | 1,480    | 2254         | 740      | Extension for reply within fourth month                                    |          |
| 1255                               | 2,010    | 2255         | 1,005    | Extension for reply within fifth month                                     |          |
| 1401                               | 330      | 2401         | 165      | Notice of Appeal                                                           |          |
| 1402                               | 330      | 2402         | 165      | Filing a brief in support of an appeal                                     |          |
| 1403                               | 290      | 2403         | 145      | Request for oral hearing                                                   |          |
| 1451                               | 1,510    | 1451         | 1,510    | Petition to institute a public use proceeding                              |          |
| 1452                               | 110      | 2452         | 55       | Petition to revive - unavoidable                                           |          |
| 1453                               | 1,330    | 2453         | 665      | Petition to revive - unintentional                                         |          |
| 1501                               | 1,330    | 2501         | 665      | Utility issue fee (or reissue)                                             | 1400     |
| 1502                               | 480      | 2502         | 240      | Design issue fee                                                           |          |
| 1503                               | 640      | 2503         | 320      | Plant issue fee                                                            |          |
| 1460                               | 130      | 1460         | 130      | Petitions to the Commissioner                                              |          |
| 1807                               | 50       | 1807         | 50       | Processing fee under 37 CFR 1.17(q)                                        |          |
| 1806                               | 180      | 1806         | 180      | Submission of Information Disclosure Stmt                                  |          |
| 8021                               | 40       | 8021         | 40       | Recording each patent assignment per property (times number of properties) |          |
| 1809                               | 770      | 2809         | 385      | Filing a submission after final rejection (37 CFR 1.129(a))                |          |
| 1810                               | 770      | 2810         | 385      | For each additional invention to be examined (37 CFR 1.129(b))             |          |
| 1801                               | 77       | 2811         | 385      | Request for Continued Examination (RCE)                                    |          |
| 1802                               | 90       | 1802         | 90       | Request for expedited examination of a design application                  |          |
| Other fee (Specify) 1504/8001      |          |              |          |                                                                            | 330      |
| * Reduced by Basic Filing Fee Paid |          |              |          | SUBTOTAL (3)                                                               | 1730     |

### SUBMITTED BY

Name (Print/Type) Michael J. Bell / Andrew R. Sommer  
Registration No. (Attorney/Agent) 39,604/53,932  
Telephone (202) 383-6500  
Signature *Michael J. Bell*  
Date March 11, 2005

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/21 (09-04)  
Approved for use through 07/31/2006. OMB 0651-0031  
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|                                                                                         |                      |                        |                                          |
|-----------------------------------------------------------------------------------------|----------------------|------------------------|------------------------------------------|
| <b>TRANSMITTAL FORM</b><br><br>(to be used for all correspondence after initial filing) | Application Number   | 10/055,754             |                                          |
|                                                                                         | Filing Date          | January 23, 2002       |                                          |
|                                                                                         | First Named Inventor | Frederick K. Blades    |                                          |
|                                                                                         | Art Unit             | 2858                   |                                          |
|                                                                                         | Examiner Name        | Teresinski, John       |                                          |
| Total Number of Pages in This Submission                                                | 3                    | Attorney Docket Number | 03105.0002.NPUS01 (formerly GDAES118567) |

| ENCLOSURES (Check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>Issue Fee Due Transmittal (Form PTOL-85) |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                                                          |          |                 |
|--------------------------------------------|----------------------------------------------------------|----------|-----------------|
| Firm Name                                  | Howrey Simon Arnold & White, LLP.<br>Customer No.: 22930 |          |                 |
| Signature                                  |                                                          |          |                 |
| Printed name                               | Michael J. Bell / Andrew R. Sommer                       |          |                 |
| Date                                       | March 11, 2005                                           | Reg. No. | 39,604 / 53,932 |

| CERTIFICATE OF TRANSMISSION/MAILING                                                                                                                                                                                                                                                                           |  |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. |  |      |
| Signature                                                                                                                                                                                                                                                                                                     |  |      |
| Typed or printed name                                                                                                                                                                                                                                                                                         |  | Date |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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